

CLAIMS:

1. A vertical axis wind turbine featured by comprising a wind receiving plate having a wind receiving surface and an openable and closable pivot, which wind receiving plate is operated to close in the direction in which the centrifugal force is produced in proportion to the revolution of a blade generating a lifting power, and

an energizing means for energizing an opening force to open said wind receiving plate to the wind receiving side.

2. A wind turbine blade featured by comprising a wind receiving plate having a wind receiving surface and an openable and closable pivot, which wind receiving plate is operated to close in the direction in which the centrifugal force is produced in proportion to the revolution of the blade generating a lifting power, and

an energizing means for energizing an opening force to open said wind receiving plate to the wind receiving side.

3. A vertical axis wind turbine featured by comprising a wind receiving plate having a wind receiving surface and an openable and closable pivot, which wind receiving plate is operated to close in the direction in which the centrifugal force is produced in proportion to the revolution of the blade generating a lifting power,

an energizing means for energizing an opening force to open said wind receiving plate to the wind receiving side, and

a holding part or holding member for maintaining said wind receiving plate in a prescribed opening angle.

4. A wind turbine blade featured by comprising a wind receiving plate having a wind receiving surface and an openable and closable pivot, which wind receiving plate is operated to close in the direction in which the centrifugal force is produced in proportion to the revolution of the blade generating a lifting power,

an energizing means for energizing an opening force to open said wind receiving plate to the wind receiving side, and

a holding part or holding member for maintaining said wind receiving plate in a prescribed opening angle.

5. A vertical axis wind turbine featured by comprising a wind receiving plate which opens in a lower circumferential velocity region than a prescribed circumferential velocity of the blade generating a lifting power and performs a closing operation in a circumferential velocity region not lower than the prescribed circumferential velocity.

6. A wind turbine blade featured by comprising a wind receiving plate which opens in a lower circumferential velocity region than a prescribed circumferential velocity of the blade generating a lifting power and performs a closing operation in a circumferential velocity region not lower than the prescribed circumferential velocity.

7. A vertical axis wind turbine featured by comprising a wind receiving plate which opens at smaller revolution than a prescribed revolution of the blade generating a lifting power and performs a closing operation at a revolution not lower than the prescribed revolution.

8. A wind turbine blade featured by comprising a wind receiving plate which opens at smaller revolution than a prescribed revolution of the blade generating a lifting power and performs a closing operation at a revolution not lower than the prescribed revolution.

9. A vertical axis wind turbine featured by comprising a wind receiving plate giving rise to an opening force by the action of an elastic body, actuator or gravity and a closing force in a region of revolution not lower than a prescribed revolution of the blade by the action of a centrifugal force caused by the revolution of the blade generating a lifting power.

10. A wind turbine blade featured by comprising a wind receiving plate giving rise to an opening force by the action of an elastic body, actuator or gravity and a closing force in a region of revolution not lower than a prescribed revolution of the blade by the action of a centrifugal force caused by the revolution of the blade generating a lifting power.

11. A vertical axis wind turbine featured by comprising a wind receiving plate which opens at a primary wind velocity lower than a prescribed wind velocity and performs a closing operation at a wind velocity not lower than the prescribed wind velocity.

12. A wind turbine blade featured by comprising a wind receiving plate which opens at a primary wind velocity lower than a prescribed wind velocity and performs a closing operation at a wind velocity not lower than the prescribed wind velocity.

13. A vertical axis wind turbine featured by comprising a wind receiving plate which opens at a circumferential velocity ratio lower than a prescribed circumferential velocity ratio and performs a closing operation at a circumferential velocity ratio not lower than the prescribed circumferential velocity ratio.

14. A vertical axis wind turbine featured by comprising a wind receiving plate which opens at a circumferential velocity ratio lower than a prescribed circumferential velocity ratio and performs a closing operation at a circumferential velocity ratio not lower than the prescribed circumferential velocity ratio.